

AWARD/CONTRACT		1. This Contract Is A Rated Order Under DPAS (15 CFR 700)		Rating DOA4		Page 1 Of 23	
2. Contract (Proc. Inst. Ident) No. W56HZV-04-C-0017		3. Effective Date 2003DEC04		4. Requisition/Purchase Request/Project No. SEE SCHEDULE			
5. Issued By TACOM WARREN BLDG 231 AMSTA-AQ-ABGD PAM KOSTOWNY (586)574-8899 WARREN, MICHIGAN 48397-5000  HTTP://CONTRACTING.TACOM.ARMY.MIL  e-mail address: KOSTOWNP@TACOM.ARMY.MIL		Code W56HZV		6. Administered By (If Other Than Item 5) DCMA DENVER ORCHARD PLACE 2 5975 GREENWOOD PLAZA BLVD. SUITE 200 ENGLEWOOD CO 80111-4715  SCD C PAS NONE ADP PT HQ0339		Code S0602A	
7. Name And Address Of Contractor (No. Street, City, County, State, And Zip Code)  AUTONOMOUS SOLUTIONS, INC. 1946 S 1600 W WELLSVILLE, UT. 84339-9601   TYPE BUSINESS: Other Small Business Performing in U.S.				8. Delivery <input type="checkbox"/> FOB Origin <input checked="" type="checkbox"/> Other (See Below) SEE SCHEDULE			
				9. Discount For Prompt Payment Net 30 Days			
				10. Submit Invoices (4 Copies Unless Otherwise Specified)		Item 12	
Code 1WQD2		Facility Code		To The Address Shown In:			
11. Ship To/Mark For SEE SCHEDULE		Code		12. Payment Will Be Made By DFAS - COLUMBUS CENTER DFAS-CO/WEST ENTITLEMENT OPERATIONS P.O. BOX 182381 COLUMBUS, OH 43218-2381		Code HQ0339	
13. Authority For Using Other Than Full And Open Competition: <input type="checkbox"/> 10 U.S.C. 2304(c)( ) <input type="checkbox"/> 41 U.S.C. 253(c)( )				14. Accounting And Appropriation Data ACRN: AA 21 42040000046N6N7EP665502255Y S20113 W56HZV			
15A. Item No. SEE SCHEDULE		15B. Schedule Of Supplies/Services CONTRACT TYPE: Cost-Plus-Fixed-Fee		15C. Quantity		15D. Unit	
				15E. Unit Price		15F. Amount	
				KIND OF CONTRACT: Research and Development Contracts			
15G. Total Amount Of Contract						\$729,400.39	
16. Table Of Contents							
(X)	Section	Description	Page(s)	(X)	Section	Description	Page(s)
Part I - The Schedule				Part II - Contract Clauses			
X	A	Solicitation/Contract Form	1	X	I	Contract Clauses	15
X	B	Supplies or Services and Prices/Costs	2	Part III - List Of Documents, Exhibits, And Other Attachments			
X	C	Description/Specs./Work Statement	5	X	J	List of Attachments	23
X	D	Packaging and Marking	8	Part IV - Representations And Instructions			
X	E	Inspection and Acceptance	9	K		Representations, Certifications, and Other Statements of Offerors	
X	F	Deliveries or Performance	10	L		Instrs., Conds., and Notices to Offerors	
X	G	Contract Administration Data	11	M		Evaluation Factors for Award	
X	H	Special Contract Requirements	13				
Contracting Officer Will Complete Item 17 Or 18 As Applicable							
17. <input checked="" type="checkbox"/> Contractor's Negotiated Agreement (Contractor is required to sign this document and return 2 signed copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all the services set forth or otherwise identified above and on any continuation sheets for the consideration stated herein. The rights and obligations of the parties to this contract shall be subject to and governed by the following documents: (a) this award/contract, (b) the solicitation, if any, and (c) such provisions, representations, certifications, and specifications, as are attached or incorporated by reference herein. (Attachments are listed herein.)				18. <input type="checkbox"/> Award (Contractor is not required to sign this document.) Your offer on Solicitation Number _____ including the additions or changes made by you which additions or changes are set forth in full above, is hereby accepted as to the items listed above and on any continuation sheets. This award consummates the contract which consists of the following documents: (a) the Government's solicitation and your offer, and (b) this award/contract. No further contractual document is necessary.			
19A. Name And Title Of Signer (Type Or Print)				20A. Name Of Contracting Officer JOHN M. HOPFNER HOPFNERJ@TACOM.ARMY.MIL (586)574-7070			
19B. Name of Contractor		19c. Date Signed		20B. United States Of America		20C. Date Signed	
By _____ (Signature of person authorized to sign)				By _____ /SIGNED/ (Signature of Contracting Officer)		2003DEC04	
NSN 7540-01-152-8069 PREVIOUS EDITIONS UNUSABLE				25-106 GPO : 1985 0 - 478-632		Standard Form 26 (Rev. 4-85) Prescribed By GSA-FAR (4.8 CFR) 53.214(a)	

**Name of Offeror or Contractor:** AUTONOMOUS SOLUTIONS, INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT									
	SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS													
0001	<div><div><div>OMNI-DIRECTIONAL VEHICLES</div><div>NOUN: MOTION PLAN-OMNI-DIRECT. VEHI SECURITY CLASS: Unclassified</div></div><div>Contractor shall furnish all the supplies and services to accomplish the task specified in Section C Scope of Work.</div><div>Est. Cost: \$694,667.04 Fixed Fee: 34,733.35 Total Amount: \$729,400.39</div><div>(End of narrative B001)</div><div>Inspection and Acceptance INSPECTION: DestinationACCEPTANCE: Destination</div><div>Deliveries or Performance<table><tr><td>DLVR SCH</td><td></td><td>PERF COMPL</td></tr><tr><td>REL CD</td><td>QUANTITY</td><td>DATE</td></tr><tr><td>001</td><td>1</td><td>05-DEC-2005</td></tr></table><div>\$729,400.39</div></div></div>	DLVR SCH		PERF COMPL	REL CD	QUANTITY	DATE	001	1	05-DEC-2005	1	LO		\$729,400.39
DLVR SCH		PERF COMPL												
REL CD	QUANTITY	DATE												
001	1	05-DEC-2005												
000101	<div><div><div>OMNI-DIRECTIONAL VEHICLES</div><div>NOUN: MOTION PLAN-OMNI-DIRECT. VEHI PRON: E142C013EHPRON AMD: 01ACRN: AA AMS CD: 665502M4055 (AMOUNT: \$431,981.00)</div></div></div>													
0002	<div><div><div>DATA ITEM</div><div>SECURITY CLASS: Unclassified</div></div></div>													
A001	<div><div><div>DATA ITEMS</div><div>NOUN: SCIENTIFIC &amp; TECH REPORTS SECURITY CLASS: Unclassified</div></div></div>	1	LO	\$** NSP **	\$** NSP **									

Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	<p><u>Packaging and Marking</u></p> <p><u>Inspection and Acceptance</u> INSPECTION: DestinationACCEPTANCE: Destination</p> <p><u>Deliveries or Performance</u> DOC SUPPL <u>REL CD</u> <u>MILSTRIP</u> <u>ADDR</u> <u>SIG CD</u> <u>MARK FOR</u> <u>TP CD</u> 001 3 <u>DEL REL CD</u> <u>QUANTITY</u> <u>DEL DATE</u> 001 1 SEE DD FORM 1423</p> <p>FOB POINT: Destination</p> <p>SHIP TO: <u>PARCEL POST ADDRESS</u> (Y00003) SEE NARRATIVE ON DD 1423</p>				

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-04-C-0017 <b>MOD/AMD</b>	<b>Page</b> 4 <b>of</b> 23
<b>Name of Offeror or Contractor:</b> AUTONOMOUS SOLUTIONS, INC.		

B.1 Estimated Cost and Payment

B.1.1 The estimated cost for performance of the work required under this contract is \$694,667.02, which shall constitute the estimated cost for the purpose of the Contract Clause hereof entitled LIMITATION OF FUNDS.

B.1.2 The contractor will be paid for the fixed fee stated in Section B opposite CLIN 0001 for the performance of work under the contract and in accordance with the terms of the Contract Clause entitled FIXED FEE, (Mar 1997), FAR 52.216-8. The fixed fee together with the reimbursement of cost shall constitute full and complete consideration for the contractor's service in connection with the work required and performed under this contract.

B.1.3 Allowable cost shall be determined, and payment thereof shall be provided, in accordance with the Contract Clause hereof entitled ALLOWABLE COST AND PAYMENT.

\*\*\* END OF NARRATIVE B 001 \*\*\*

B.2 Payment

The contractor may submit public vouchers monthly for payment under this contract. The fee will be payable at the time of reimbursement of cost at the same rate to such cost as the total fee of this contract bears to the total estimated cost thereof, subject to any withholding pursuant to provisions of this contract.

\*\*\* END OF NARRATIVE B 002 \*\*\*

B.3 Funding

B.3.1 The Government shall provide funds under this contract covering the estimated cost and fee hereof on an incremental basis as provided for in the following funding schedule and pursuant to the Contract Clause entitled LIMITATION OF FUNDS. It is estimated that the incremental amounts are sufficient for the performance of work in each of cited periods. The Government may, at its discretion, allot such funds on an incremental basis within each fiscal year. The contractor shall so plan and execute the work required by this contract as to expend and/or commit funds compatible with the schedule set forth below. Whenever the contractor has reason to believe that the funds allotted to this contract for any fiscal year are either insufficient or excessive for the performance of work required in that fiscal year, the Government shall be so notified.

B.3.2 Funding Schedule

<u>Performance Period</u>	<u>Amount</u>
FY04 - Award through Dec 04	\$431,981.00
FY05 - Jan 05 through Completion	\$297,419.39

B.4 Funds Allotted. The amount of funds currently allotted to this contract is \$431,981.00

\*\*\* END OF NARRATIVE B 003 \*\*\*

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-04-C-0017 <b>MOD/AMD</b>	<b>Page</b> 5 <b>of</b> 23
<b>Name of Offeror or Contractor:</b> AUTONOMOUS SOLUTIONS, INC.		

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

STATEMENT OF WORK

C.1. Introduction

C.1.1. The contractor, acting as an independent contractor and not as an agent of the Government, shall provide the necessary personnel, facilities, materials and services to complete the tasks outlined below.

C.1.2. The contractor shall research, develop, produce and deliver two prototype unmanned ground vehicles. The first vehicle shall be an intelligent highly mobile platform and the second shall be a low-cost rugged highly maneuverable inspection platform.

C.2. Scope of Work for Autonomous Solutions Inc. (ASI) Phase II SBIR

In the Phase I effort (contract DAAE07-03-C-L029), ASI demonstrated through simulation various intelligent behaviors for an unmanned ground vehicle (UGV), such as obstacle avoidance, motion planning and self-extrication. In this Phase II contract, ASI will further investigate intelligent behaviors and implement them in physical UGV platforms. ASI shall research, design, develop, build and deliver two different UGV's. To accomplish this, ASI shall perform the following tasks:

C.2.1. ASI shall research, design, develop, build and deliver a highly mobile intelligent unmanned ground vehicle. The vehicle (in combination with its communications link and operator interface) shall be able to perform the following functions and shall comply with the following performance specifications:

- (a) Weight: The weight of UGV shall not exceed 50 Kg, with the goal that the weight not exceed 35 Kg.
- (b) Range: The UGV shall have a minimum range of 2 Km on level pavement, with the goal of 5 Km (excluding effects of communications limitations).
- (c) Maximum speed: The UGV shall reach a speed of five (5) Kph on a dry level concrete surface, with the goal of ten (10) Kph.
- (d) Slope climb: The UGV shall demonstrate the ability to climb a 60% grade on a dry concrete surface, with a goal of climbing a 100% grade at any speed for a minimum distance of two (2) m.
- (e) Side slope stability: The UGV shall demonstrate the ability to maintain its stability on a side slope grade of 60% on a dry concrete surface, with a goal of maintaining stability on a 100% side slope grade at any speed for a minimum distance of 2 m.
- (f) Staircase: The UGV shall demonstrate the ability to autonomously ascend and descend residential and commercial, interior and exterior staircases that have steps with a minimum vertical rise of 15 cm and a minimum horizontal run 1.5 times the step rise, with a goal of attaining a vertical rise of 30 cm and a horizontal run 1.0 times the step rise.
- (g) Surface conditions: The UGV shall cross the following for a minimum distance of 100 m: loose dry silt, sand, pea gravel, beds of smooth stream stones and crushed rocks up to 15 cm wide, grass up to 1 m tall, and water up to 2 cm deep and goal of crossing water up to 4 cm deep.
- (h) Adaptive driving: The UGV shall automatically detect slope and adjust speed, torque and gait for efficient traverse of the slope.
- (i) Obstacle detection: Using commercial-off-the-shelf (COTS) ultrasonic or infrared detectors, the UGV shall automatically detect positive and negative obstacles within its line of sight and change its gait at sufficient distance to stop before reaching the obstacle.
- (j) Extrication: The UGV shall automatically detect when obstacles, slope and/or surface conditions cannot be traversed (e.g., excessive slip, skid, stuck, or other unfavorable terrain interactions) and extricate itself.
- (k) Driving and navigation: The UGV shall automatically find a route from "A to B," with "A" representing the current position of the UGV, and "B" representing a location specified by the UGV operator. The UGV shall dynamically adjust its path to avoid obstacles that it cannot traverse because they are beyond its performance capabilities. The UGV shall automatically re-plan and navigate to compensate for the effects of the terrain and vehicle motion.
- (l) Global way-point path planning: Assuming data on terrain trafficability is given, the UGV shall demonstrate the ability to plan for scenarios 1 Km in diameter to optimize any one of the following measures of efficiency as selected by the operator: (a) travel time, (b) path length, and (c) power consumption.
- (m) Operator interface: The UGV shall have the option of full wireless remote driving, wireless remote driving with autonomous speed and gait control, or full autonomous operation. The operator interface shall provide video feedback (within the power and penetration capabilities of IEEE 802.11b).
- (n) Vehicle status and progress data: The UGV shall transmit real-time vehicle status and progress data, including, but not limited to position, speed, orientation, battery life, and motor voltage, to the operator console.
- (o) Navigation position location: The UGV shall use standard National Marine Electronics Association (NMEA) stream for navigation (GPS or a seamless equivalent e.g. size, power, weight, interface). The UGV shall be self-locating in GPS/beacon-denied areas with accuracy sufficient for driving distances of at least 5 m, and a desired distance of 10 m on rough, high slip terrain. The UGV shall be self-locating in GPS/beacon-denied areas with accuracy sufficient for driving distances of at least 10 m, and a desired distance of 20 m on benign, low slip terrain.
- (p) The UGV shall demonstrate the ability to withstand at a minimum a 50 cm drop without damage, with the objective of withstanding drop of 100 cm without damage.
- (q) The UGV shall demonstrate the ability of overturning without damage.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>  <b>PIIN/SIIN</b> W56HZV-04-C-0017 <b>MOD/AMD</b>	<b>Page</b> 6 <b>of</b> 23
<b>Name of Offeror or Contractor:</b> AUTONOMOUS SOLUTIONS, INC.		

\*\*\* END OF NARRATIVE C 001 \*\*\*

C.2.2. ASI shall research, design, develop, build and deliver a highly maneuverable low-cost rugged inspection vehicle. The vehicle (together with its communications link and operator interface) shall be able to perform the following functions and shall possess the following performance specifications:

- (a) Height: The height of inspection vehicle shall not exceed 12 cm high.
- (b) Weight: The weight of inspection vehicle shall not exceed 30 Kg required, with the goal that the weight not exceed 20 Kg
- (c) Range: The inspection vehicle shall have a minimum range of 1 Km on level pavement, with the goal of 2 Km.
- (d) Endurance: The inspection vehicle shall operate for at least 1-hour duration on pavement.
- (e) Obstacle crossing: The inspection vehicle shall demonstrate the ability to drive over, up and down stone obstacles 3 cm high.
- (f) Non-line-of-sight driving: The inspection vehicle system shall be capable of wireless remote driving and the operator interface shall provide video feedback adequate for driving, both in line-of-sight and in non-line-of-sight situations (within the power and penetration capabilities of IEEE 802.11b).
- (g) Optics: The inspection vehicle shall have a camera and wide-field-of-view optics suitable for driving and narrow-field-of-view optics suitable for under-car inspection tasks.
- (h) The inspection vehicle shall be functionally omni-directional.
- (i) Production cost: The inspection vehicle shall have production cost not to exceed \$6K (exclusive of camera and communications), with a goal that the production cost be less than \$2K.
- (j) Weather resistance: The inspection vehicle shall be weather resistant, i.e. will operate in rain, sun and wind. (Submersible not required).
- (k) The inspection vehicle shall withstand a minimum of 50 cm drop without damage, with a goal that it withstand a 100 cm drop without damage.
- (l) The inspection vehicle shall have a user controlled pan/tilt camera mount and camera. (The camera is addressed in (g).)
- (m) The inspection vehicle shall have active lighting with user-controlled intensity suitable for under-car inspection tasks described in this statement of work.
- (n) The inspection vehicle shall demonstrate "Intelligent behavior" if tele-operation link is temporarily broken, such as autonomously retracing its steps a minimum distance of 5 m.

\*\*\* END OF NARRATIVE C 002 \*\*\*

### C.3. Meetings

C.3.1. Within thirty (30) days after contract award, ASI shall plan and conduct a one (1) day kickoff meeting to be held at TARDEC. ASI shall contact the COR a minimum of two weeks in advance to coordinate the meeting. ASI shall also invite the buyer listed on page one of the contract and the Administrative Contracting Officer (ACO) listed in Section G of the contract.

### C.3.2. Interim Progress Reviews:

C.3.2.1 ASI shall plan and conduct four (4) semi-annual Interim Progress Review (IPR) meetings; two (2) of the IPRs shall be held at TARDEC and two (2) of the IPRs shall be held at the contractor's facility. We anticipate that the first and third IPR will be held at the contractor's facility and the second and fourth IPR will be held at TARDEC; in the event that circumstances warrant, the COR and the contractor may agree to an alternate sequence of locations. In order to reduce travel costs, ASI shall coordinate the aforementioned meetings with other meetings required between ASI and TARDEC.

C.3.2.2 At a minimum, ASI shall invite the COR, the buyer listed on page one of the contract, and the ACO identified in Section G of the contract a minimum of two weeks in advance to coordinate the meeting.

C.3.3. ASI shall plan and conduct annual software/hardware demonstrations. The annual meetings shall be held in conjunction with the corresponding interim progress review meetings. The final meeting shall include a demonstration that the two systems are capable of all performance specifications described in Sections C.2.1 and C.2.2. At a minimum, ASI shall invite the COR, the buyer listed on page one of the contract, and the ACO identified in Section G of the contract a minimum of two weeks in advance to coordinate the meeting.

\*\*\* END OF NARRATIVE C 003 \*\*\*

### C.4. Deliverables

C.4.1. ASI shall submit bi-monthly progress reports in accordance with CDRL item A001. The first bi-monthly progress report is due 60 days after contract award.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-04-C-0017 <b>MOD/AMD</b>	<b>Page</b> 7 <b>of</b> 23
<b>Name of Offeror or Contractor:</b> AUTONOMOUS SOLUTIONS, INC.		

C.4.2. ASI shall prepare and submit an interim technical report, addressing the technical information from Section C.2, to date, in accordance with CDRL item A002. This report is due 12 months after award, and shall take the place of the progress report for that reporting period. The report shall contain a summary of the accomplishments, and funds and labor hours expended for the past year. The report shall also include plans for the next year.

C.4.3. ASI shall prepare and submit a draft and final technical report addressing all the technical information concerning the Unmanned Ground Vehicle system described in Section C.2.1 and the Inspection Vehicle described in Section C.2.2, in accordance with CDRL item A003. The report shall include the results of all tests performed on the systems, technical specifications and diagrams of all components of the systems, and instructions detailing the operation of all delivered software and hardware. ASI shall submit the draft technical report twenty-three (23) months after contract award. The COR has fourteen (14) days after receipt of the draft to review and comment. ASI shall deliver the final technical report fourteen (14) days after receipt of draft comments.

C.4.4. At the end of the contract, ASI shall deliver to the COR the two prototype unmanned ground systems, both hardware and software, as described in Section C.2. The delivered systems shall be capable of all functions that are described in Section C.2.1 and C.2.2.

\*\*\* END OF NARRATIVE C 004 \*\*\*

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>  <b>PIIN/SIIN</b> W56HZV-04-C-0017 <b>MOD/AMD</b>	<b>Page</b> 8 <b>of</b> 23
<b>Name of Offeror or Contractor:</b> AUTONOMOUS SOLUTIONS, INC.		

SECTION D - PACKAGING AND MARKING

D.1 Packaging and Packing

All items delivered under this contract shall be packaged and packed in accordance with standard commercial practices, in order to assure arrival at Destination without damage or loss.

D.2 Marking

ASI shall ensure that all technical data, deliverable under this contract, is identified by contract number, ASI's name and address and, where applicable, the name and address of the subcontractor who generated the data.

\*\*\* END OF NARRATIVE D 001 \*\*\*



SECTION E - INSPECTION AND ACCEPTANCE

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
E-1	52.246-3	INSPECTION OF SUPPLIES - COST REIMBURSEMENT	MAY/2001
E-2	52.246-9	INSPECTION OF RESEARCH AND DEVELOPMENT (SHORT FORM)	APR/1984

E.3 Inspection and Acceptance Point:

Inspection and acceptance of all deliverables under this contract shall be made at Destination by the Contracting Officer or his duly authorized representative. The determination that the deliverables are complete and conform to the requirements of the contract will be made by the Contracting Officer's Representative (COR), to assure the work and the results thereof are in accordance with the terms of the contract.

\*\*\* END OF NARRATIVE E 001 \*\*\*

E.3 Inspection and Acceptance Point:

Inspection and acceptance of all deliverables under this contract shall be made at Destination by the Contracting Officer or his duly authorized representative. The determination that the deliverables are complete and conform to the requirements of the contract will be made by the Contracting Officer's Representative (COR), to assure the work and the results thereof are in accordance with the terms of the contract.

\*\*\* END OF NARRATIVE E 002 \*\*\*

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-04-C-0017 <b>MOD/AMD</b>	<b>Page 10 of 23</b>
<b>Name of Offeror or Contractor:</b> AUTONOMOUS SOLUTIONS, INC.		

SECTION F - DELIVERIES OR PERFORMANCE

	<u>Regulatory Cite</u>	<u>Title</u>	<u>Date</u>
F-1	52.242-15	STOP WORK ORDER--(ALTERNATE I dated APR 1984)	AUG/1989
F-2	52.247-34	F.O.B. DESTINATION	NOV/1991

F.3 DATA

F.3.1 The contractor shall submit all reports electronically in accordance with the Contract Data Requirements List (CDRL), (DD Form 1423), Exhibit A, to the following addresses:

karlsenr@tacom.army.mil  
kostownp@tacom.army.mil  
and  
whackett@dcmdw.dcm.mil

F.3.2 All items called for in this contract that cannot be submitted electronically, shall be delivered FOB Destination to:

U.S. Army Tank-automotive and Armaments Command  
ATTN: AMSTA-TR-R, MS 263, Robert E. Karlsen  
6501 E. 11 Mile Rd.  
Warren, Michigan 48397-5000

F.4 DURATION OF PERFORMANCE:

F.4.1 All work required under this contract, including delivery of the two Unmanned Ground Vehicles and submission of the final technical report, shall be completed within twenty-four (24) months after contract award date.

F.4.1.1 The contractor shall deliver a draft technical report twenty-three (23) months after award.

F.4.1 2 The contractor shall deliver the final technical report fourteen (14) days after receipt of Government comments.

F.4.1.3 The entire contractual efforts, including the delivery of the final technical report, shall be completed within twenty-four (24) months from contract award date.

F.4.2 ASI shall deliver the prototype of the highly mobile, intelligent, unmanned ground vehicle described in paragraph C.2.1, both hardware and software, twenty-four (24) months after contract award date.

F.4.3 ASI shall deliver the prototype of the highly maneuverable, low-cost, rugged inspection vehicle described in paragraph C.2.2, both hardware and software, twenty-four (24) months after contract award date.

\*\*\* END OF NARRATIVE F 001 \*\*\*

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>  <b>PIIN/SIIN</b> W56HZV-04-C-0017 <b>MOD/AMD</b>	<b>Page 11 of 23</b>
<b>Name of Offeror or Contractor:</b> AUTONOMOUS SOLUTIONS, INC.		

SECTION G - CONTRACT ADMINISTRATION DATA

\* \* G.1 SPECIAL PAYING INSTRUCTIONS: PAY OLDEST MONEY FIRST \* \*

G.1.1 The PAYING OFFICE: shall determine the total amount requested on each invoice or payment voucher received against the contract. Each payment shall be made against the oldest fiscal year funding line(s) in the contract for which funds remain available. If the oldest fiscal year is represented by two or more accounting lines that still contain funds, payment shall be made equally against all accounting lines representing the oldest fiscal year until such lines are completely disbursed.

G.1.2 First example: the contract includes one accounting line from fiscal year 2003 and two accounting lines from fiscal year 2004. Result: disbursements against new invoices are made on the fiscal 2003 accounting line until it is completely disbursed, before any disbursements are made against the fiscal year 2004 accounting lines. Once disbursements start against the fiscal year 2004lines, those payments will be split equally between the two available fiscal 2004 lines.

G.1.3 Second example: the contract includes four accounting lines from fiscal year 2003 and one accounting line from fiscal year 2004. Result: disbursements against new invoices are made and recorded equally against each of the four fiscal 2003 accounting lines. If one of the 2003 accounting lines becomes completely disbursed but money remains available on other 2003 lines, then payment on subsequent invoices will be made and recorded equally among the remaining 2003 lines until they become completely disbursed, before disbursements are made against the fiscal year 2004 line.

\*\*\* END OF NARRATIVE G 001 \*\*\*

PRON/								JOB		
LINE	AMS CD/	OBLG						ORDER	ACCOUNTING	OBLIGATED
ITEM	MIPR	ACRN	STAT	ACCOUNTING CLASSIFICATION				NUMBER	STATION	AMOUNT
000101	E142C013EH	AA	2	21	42040000046N6N7EP665502255Y	S20113		42C013	W56HZV	\$ 431,981.00
	665502M4055									
									TOTAL	\$ 431,981.00

SERVICE							ACCOUNTING	OBLIGATED
NAME	TOTAL BY ACRN	ACRN	STAT	ACCOUNTING CLASSIFICATION			STATION	AMOUNT
Army	AA	21		42040000046N6N7EP665502255Y	S20113		W56HZV	\$ 431,981.00
								TOTAL \$ 431,981.00

	Regulatory Cite	Title	Date
G-1	52.242-4016 (TACOM)	COMMUNICATIONS	MAY/2000

(a) Communications on technical matters pertaining to the contract shall be direct between the contractor and the Technical Representative. Communications for the Technical Representative shall be addressed to:

Name: Robert Karlsen  
e-mail: karlsen@tacom.army.mil

(b) The Administrative Contracting Officer's (ACO) name and email address are also provided if known at this time:

ACO: Wayne Hackett  
e-mail: whackett@dcmdw.dcmamail

(c) Please see the appointment letters prepared at time of contract award for functions the Technical Representative and ACO will perform on this contract.

[End of Clause]

G-2	252.201-7000	CONTRACTING OFFICER'S REPRESENTATIVE	DEC/1991
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(a) Definition. Contracting Officer's Representative means an individual designated in accordance with subsection 201.602-2 of the Defense Federal Acquisition Regulation Supplement and authorized in writing by the contracting officer to perform specific technical

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-04-C-0017 <b>MOD/AMD</b>	<b>Page 12 of 23</b>
<b>Name of Offeror or Contractor:</b> AUTONOMOUS SOLUTIONS, INC.		

or administrative functions.

(b) If the Contracting Officer designates a contracting officer's representative (COR), the Contractor will receive a copy of the written designation. It will specify the extent of the COR's authority to act on behalf of the contracting officer. The COR is not authorized to make any commitments or changes that will affect price, quality, quantity, delivery, or any other term or condition of the contract.

[End of Clause]

G-352.227-4004RELEASE OF INFORMATIONOCT/2003  
(TACOM)

The contractor shall ensure that he complies with the requirements of Chapter 5, page 22, paragraph 5-48, of AR 360-1, The Army Public Affairs Program, dated 15 Oct 2000,\_prior to contemplated release of any procurement information. Approval of the Contracting Officer is required prior to release of any such information. AR 360-1 may be found at [http://www.usapa.army.mil/pdffiles/r360\\_1.pdf](http://www.usapa.army.mil/pdffiles/r360_1.pdf) .

[End of clause]  
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G-452.232-4005INVOICE INFORMATION REQUIREMENTJAN/1988  
(TACOM)

On each payment request submitted, the Contractor shall identify each affected Contract Line Item Number (CLIN), sub-CLIN, and/or work directive, together with the related dollar amounts. This requirement does not diminish or restrict any other requirement of this contract.

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CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN W56HZV-04-C-0017 MOD/AMD	Page 13 of 23
Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.		

SECTION H - SPECIAL CONTRACT REQUIREMENTS

	Regulatory Cite	Title	Date
H-1	252.205-7000	PROVISION OF INFORMATION TO COOPERATIVE AGREEMENT HOLDERS	DEC/1991
H-2	252.225-7001	BUY AMERICAN ACT AND BALANCE OF PAYMENTS PROGRAM	APR/2003
H-3	252.225-7002	QUALIFYING COUNTRY SOURCES AS SUBCONTRACTORS	APR/2003
H-4	252.225-7004	REPORTING OF CONTRACT PERFORMANCE OUTSIDE THE UNITED STATES	APR/2003
H-5	252.227-7036	DECLARATION OF TECHNICAL DATA CONFORMITY	JAN/1997
H-6	252.227-7037	VALIDATION OF RESTRICTIVE MARKINGS ON TECHNICAL DATA	SEP/1999
H-7	252.231-7000	SUPPLEMENTAL COST PRINCIPLES	DEC/1991
H-8	252.235-7011	FINAL SCIENTIFIC OR TECHNICAL REPORT	SEP/1999
H-9	252.246-7000	MATERIAL INSPECTION AND RECEIVING REPORT	MAR/2003
H-10	252.246-7001	WARRANTY OF DATA	DEC/1991
H-11	252.227-7039	PATENTS -- REPORTING OF SUBJECT INVENTIONS	APR/1990

The Contractor shall furnish the Contracting Officer the following:

(a) Interim reports every twelve (12) months (or such longer period as may be specified by the Contracting Officer) from the date of the contract, listing subject inventions during that period and stating that all subject inventions have been disclosed or that there are no such inventions.

(b) A final report, within three (3) months after completion of the contracted work, listing all subject inventions or stating that there were no such inventions.

(c) Upon request, the filing date, serial number and title, a copy of the patent application and patent number, and issue data for any subject invention for which the Contractor has retained title.

(d) Upon request, the Contractor shall furnish the Government an irrevocable power to inspect and make copies of the patent application file.

(End of clause)

H-12	52.204-4005 (TACOM)	REQUIRED USE OF ELECTRONIC CONTRACTING	DEC/2002
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(a) All contract awards, modifications and delivery orders issued by TACOM will be issued electronically. The contractor has the option to receive these actions either via the Worldwide Web (WWW) or Electronic Data Interchange (EDI). Many provisions and clauses appear "by reference," meaning only clause titles and regulation site are listed; their full texts can be found at the website <http://farsite.hill.af.mil/>

(b) In order to be eligible to receive an award under this solicitation, the successful offeror must be registered with the Department of Defense (DOD) Central Contractor Registration (CCR). The CCR registration process may be done electronically at the World Wide Web (WWW) site: <http://www.ccr.gov/>. (In order to be registered to use EDI, you must use the long form for registration. Certification information, including information on the EDI 838 TPP, must be furnished to the Contracting Officer within 60 calendar days after contract award to complete networking requirements within the Government.)

(c) Worldwide Web Distribution. The contractor will receive an electronic Notice of the Award, Modification, or Delivery Order via e-mail. If you choose the WWW option, you must download the file from the appropriate TACOM webpage:

Warren: [http://contracting.tacom.army.mil/awards\\_official.htm](http://contracting.tacom.army.mil/awards_official.htm)  
Rock Island: <http://aais.ria.army.mil/AAIS/AWDINFO/index.htm>  
Picatinny: <http://procnet.pica.army.mil/Contracts/Index.htm>  
Red River Army Depot: <http://www.redriver.army.mil/contracting/Awards>  
Anniston Army Depot: <http://www.anadprocnet.army.mil>

(d) Electronic Data Interchange. If you choose to receive contract awards, modifications and delivery orders through EDI, they will be delivered electronically via the Federal Acquisition Network (FACNET). Federal Standard Version 3050 of Standard X12 from the American National Standards Institute (ANSI) will be used as the format for these electronic transactions.

(1) You must complete the EDI 838 Trading Partner Profile, and must agree (i) to subcontract with a DoD certified VAN or Value Added Service (VAS) provider, or (ii) to become DoD certified as a Value Added Network (VAN). The EDI 838 Training Partner Profile is contained in the basic CCR registration form and includes portions of the registration form which are titled "Optional".

(2) You must select a VAN from the official DoD approved list. DoD Certified VANs are listed at

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>  <b>PIIN/SIIN</b> W56HZV-04-C-0017 <b>MOD/AMD</b>	<b>Page 14 of 23</b>
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**Name of Offeror or Contractor:** AUTONOMOUS SOLUTIONS, INC.

<http://www.acq.osd.mil/ec/ecip/index.htm> . If your VAN is later removed from the official list, or if you voluntarily drop your initially selected VAN, then you must switch to a VAN that remains on the official DoD approved list. You must maintain an active account on a DoD approved VAN for the entire duration of the contract, beginning no later than the 60th day after award.

(e) Unless otherwise specified elsewhere in the contract, all data items you are required to provide under this contract must be submitted electronically. Acceptable formats include:

- (1) Microsoft\* 97 Office Products (TACOM can currently read OFFICE 97\* and lower.): Word, Excel, Powerpoint, or Access
- (2) 100 OR 250 MEGABYTE ZIP\*-DISK, 3 1/2 INCH DISK, OR 650 MEGABYTE CD ROM
- (3) E-MAIL (Maximum size of each e-mail message is be three and one-half (3.5) megabytes).

(4) Other electronic formats. Before submitting your data in any other electronic format, please e-mail the buyer identified on the face of the contract, with e-mail copy-furnished to [amsta-idq@tacom.army.mil](mailto:amsta-idq@tacom.army.mil), to obtain a decision as to the format's acceptability. This e-mail must be received by the buyer not later than ten calendar days before the required data submission date.

NOTE: The above formats may be submitted in compressed form using self-extracting files.

- (f) Additional information can be obtained by sending a message to: [acqcenweb@tacom.army.mil](mailto:acqcenweb@tacom.army.mil) or by calling (586) 574-7059.  
[End of Clause]

H-13      52.216-4008      STATUS OF FUNDS ON COST REIMBURSEMENT CONTRACTS/CLINS      JUN/1989  
(TACOM)

(a) The Contractor shall review the funding as it relates to work performed on the cost-reimbursement Contract Line Item Numbers (CLINs) under this contract and shall provide to the Procuring Contracting Officer (PCO) a written determination of what, if any, funds are excess to requirements (leaving a reasonable amount for final overhead rate negotiations and other reasonably predicted requirements) and are available for deobligation. This review shall be coordinated with the Administrative Contracting Officer (ACO), and the written determination shall be accomplished within 120 days of completion of performance under the CLIN. The report shall be prepared in terms of dollars available per Purchase Request Order Number (PRON), unless requested otherwise by the PCO.

(b) This report may be requested in writing by the PCO on additional occasions during the course of performance of work on cost-reimbursable CLINS contained in this contract. On such occasions, the written report shall be provided to the PCO within 14 days of Contractor receipt of the written request.

(End of clause)

H-14      52.246-4026      LOCAL ADDRESSES FOR DD FORM 250      MAR/2002  
(TACOM)

(a) The contractor must provide a copy of each Material Inspection and Receiving Report (DD 250) pertaining to this contract, to the addresses given below, using either of the following methods:

- (1) Our first preference is for you to use electronic mail (e-mail), using the following e-mail address:

[DD250@tacom.army.mil](mailto:DD250@tacom.army.mil)

- (2) Our second preference is for you to use data facsimile (datafax) transmission, using this fax number:

(586) 574-7552 and use "DD250 mailbox" in the "to:" block of your fax cover or header sheet.

In either method, do not mix DD250s from more than one contract in a single transmmision. That is, you may submit multiple DD250s in a single transmission, but they must all be against the same contract.

(b) These copies meet the requirements for the Purchasing Office copy and the Army Inventory Control Manager copy listed in tables 1 and 2 of DFARS Appendix F.

- (c) The DD250 form may be found, in three different formats, on the World Wide Web at <http://webl.whs.osd.mil/icdhome/DD-0999.htm>

[End of Clause]

CONTINUATION SHEET	Reference No. of Document Being Continued		Page 15 of 23
	PIIN/SIIN	MOD/AMD	
Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.			

SECTION I - CONTRACT CLAUSES

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this address: <http://farsite.hill.af.mil/>

[End of Clause]

	Regulatory Cite	Title	Date
I-1	52.202-1	DEFINITIONS	DEC/2001
I-2	52.203-3	GRATUITIES	APR/1984
I-3	52.203-5	COVENANT AGAINST CONTINGENT FEES	APR/1984
I-4	52.203-6	RESTRICTIONS ON SUBCONTRACTOR SALES TO THE GOVERNMENT	JUL/1995
I-5	52.203-7	ANTI-KICKBACK PROCEDURES	JUL/1995
I-6	52.203-8	CANCELLATION, RESCISSION AND RECOVERY OF FUNDS FOR ILLEGAL OR IMPROPER ACTIVITY	JAN/1997
I-7	52.203-10	PRICE OR FEE ADJUSTMENT FOR ILLEGAL OR IMPROPER ACTIVITY	JAN/1997
I-8	52.203-12	LIMITATION ON PAYMENTS TO INFLUENCE CERTAIN FEDERAL TRANSACTIONS	JUN/2003
I-9	52.204-4	PRINTING/COPYING DOUBLE-SIDED ON RECYCLED PAPER	AUG/2000
I-10	52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED, OR PROPOSED FOR DEBARMENT	JUL/1995
I-11	52.211-5	MATERIAL REQUIREMENTS	AUG/2000
I-12	52.211-15	DEFENSE PRIORITY AND ALLOCATION REQUIREMENTS	SEP/1990
I-13	52.215-2	AUDIT AND RECORDS - NEGOTIATIONS	JUN/1999
I-14	52.215-11	PRICE REDUCTION FOR DEFECTIVE COST OR PRICING DATA--MODIFICATIONS	OCT/1997
I-15	52.215-13	SUBCONTRACTOR COST OR PRICING DATA -- MODIFICATIONS	OCT/1997
I-16	52.215-15	PENSION ADJUSTMENTS AND ASSET REVERSIONS	DEC/1998
I-17	52.215-17	WAIVER OF FACILITIES CAPITAL COST OF MONEY	OCT/1997
I-18	52.215-18	REVERSION OR ADJUSTMENT OF PLANS FOR POSTRETIREMENT BENEFITS (PRB) OTHER THAN PENSIONS	OCT/1997
I-19	52.216-7	ALLOWABLE COST AND PAYMENT	DEC/2002
I-20	52.216-8	FIXED FEE	MAR/1997
I-21	52.219-6	NOTICE OF TOTAL SMALL BUSINESS SET-ASIDE	JUN/2003
I-22	52.219-8	UTILIZATION OF SMALL BUSINESS CONCERNS	OCT/2000
I-23	52.219-14	LIMITATIONS ON SUBCONTRACTING	DEC/1996
I-24	52.222-1	NOTICE TO THE GOVERNMENT OF LABOR DISPUTES	FEB/1997
I-25	52.222-4	CONTRACT WORK HOURS AND SAFETY STANDARDS ACT--OVERTIME COMPENSATION	SEP/2000
I-26	52.222-20	WALSH-HEALEY PUBLIC CONTRACTS ACT	DEC/1996
I-27	52.222-21	PROHIBITION OF SEGREGATED FACILITIES	FEB/1999
I-28	52.222-26	EQUAL OPPORTUNITY	APR/2002
I-29	52.222-35	AFFIRMATIVE ACTION FOR DISABLED VETERANS AND VETERANS OF THE VIETNAM ERA	DEC/2001
I-30	52.222-36	AFFIRMATIVE ACTION FOR WORKERS WITH DISABILITIES	JUN/1998
I-31	52.222-37	EMPLOYMENT REPORTS ON SPECIAL DISABLED VETERANS, VETERANS OF THE VIETNAM ERA, AND OTHER ELIGIBLE VETERANS	DEC/2001
I-32	52.223-6	DRUG FREE WORKPLACE	MAY/2001
I-33	52.223-14	TOXIC CHEMICAL RELEASE REPORTING	AUG/2003
I-34	52.225-8	DUTY-FREE ENTRY	FEB/2000
I-35	52.225-13	RESTRICTIONS ON CERTAIN FOREIGN PURCHASES	JUN/2003
I-36	52.226-1	UTILIZATION OF INDIAN ORGANIZATIONS AND INDIAN-OWNED ECONOMIC ENTERPRISES	JUN/2000
I-37	52.227-1	AUTHORIZATION AND CONSENT	JUL/1995
I-38	52.227-2	NOTICE AND ASSISTANCE REGARDING PATENT AND COPYRIGHT INFRINGEMENT	AUG/1996
I-39	52.227-11	PATENT RIGHTS--RETENTION BY THE CONTRACTOR (SHORT FORM)	JUN/1997
I-40	52.228-7	INSURANCE--LIABILITY TO THIRD PERSONS	MAR/1996
I-41	52.229-3	FEDERAL, STATE, AND LOCAL TAXES	APR/2003
I-42	52.232-9	LIMITATION ON WITHHOLDING OF PAYMENTS	APR/1984
I-43	52.232-17	INTEREST	JUN/1996
I-44	52.232-22	LIMITATION OF FUNDS	APR/1984
I-45	52.232-23	ASSIGNMENT OF CLAIMS	JAN/1986
I-46	52.232-25	PROMPT PAYMENT	FEB/2002
I-47	52.232-33	PAYMENT BY ELECTRONIC FUNDS TRANSFER--CENTRAL CONTRACTOR REGISTRATION	OCT/2003
I-48	52.233-1	DISPUTES	JUL/2002
I-49	52.233-3	PROTEST AFTER AWARD -- (ALTERNATE I, dated JUN 1985)	AUG/1996

CONTINUATION SHEET	Reference No. of Document Being Continued		Page 16 of 23
	PIIN/SIIN W56HZV-04-C-0017	MOD/AMD	
Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.			

	Regulatory Cite	Title	Date
I-50	52.242-1	NOTICE OF INTENT TO DISALLOW COSTS	APR/1984
I-51	52.242-3	PENALTIES FOR UNALLOWABLE COSTS	MAY/2001
I-52	52.242-4	CERTIFICATION OF INDIRECT COSTS	JAN/1997
I-53	52.242-13	BANKRUPTCY	JUL/1995
I-54	52.243-2	CHANGES--COST-REIMBURSEMENT (ALTERNATE II, dtaed April 1984)	AUG/1987
I-55	52.243-7	NOTIFICATION OF CHANGES	APR/1984
I-56	52.244-2	SUBCONTRACTS (ALT I--AUG 1998)	AUG/1998
I-57	52.244-5	COMPETITION IN SUBCONTRACTING	DEC/1996
I-58	52.245-5	GOVERNMENT PROPERTY (COST-REIMBURSEMENT, TIME-AND-MATERIAL, OR LABOR-HOUR CONTRACTS) (Deviation, per DAR Tracking Number 99-00008, 13 July 99)	JUN/2003
I-59	52.246-23	LIMITATION OF LIABILITY	FEB/1997
I-60	52.247-1	COMMERCIAL BILL OF LADING NOTATIONS the notation set forth in paragraph (a) of the clause applies in this contract.` The agency name in line one of the notation shall read:US ARMY TANK-AUTOMOTIVE & ARMAMENTS COMMAND	APR/1984
I-61	52.247-67	SUBMISSION OF COMMERCIAL TRANSPORTATION BILLS TO THE GENERAL SERVICES ADMINISTRATION FOR AUDIT	JUN/1997
I-62	52.249-6	TERMINATION (COST-REIMBURSEMENT)	SEP/1996
I-63	52.249-14	EXCUSABLE DELAYS	APR/1984
I-64	52.253-1	COMPUTER GENERATED FORMS	JAN/1991
I-65	252.204-7003	CONTROL OF GOVERNMENT PERSONNEL WORK PRODUCT	APR/1992
I-66	252.209-7000	ACQUISITION FROM SUBCONTRACTORS SUBJECT TO ON-SITE INSPECTION UNDER THE INTERMEDIATE-RANGE NUCLEAR FORCES (INF) TREATY	NOV/1995
I-67	252.209-7004	SUBCONTRACTING WITH FIRMS THAT ARE OWNED OR CONTROLLED BY THE GOVERNMENT OF A TERRORIST COUNTRY per DoD interim rule, Federal Register 27 Mar 98	MAR/1998
I-68	252.211-7005	SUBSTITUTIONS FOR MILITARY OR FEDERAL SPECIFICATIONS AND STANDARDS	FEB/2003
I-69	252.215-7000	PRICING ADJUSTMENTS	DEC/1991
I-70	252.225-7004	REPORTING OF CONTRACT PERFORMANCE OUTSIDE THE UNITED STATES	APR/2003
I-71	252.225-7012	PREFERENCE FOR CERTAIN DOMESTIC COMMODITIES	FEB/2003
I-72	252.225-7014	PREFERENCE FOR DOMESTIC SPECIALTY METALS (ALT 1)	APR/2003
I-73	252.225-7016	RESTRICTION ON ACQUISITION OF BALL AND ROLLER BEARINGS	APR/2003
I-74	252.225-7025	RESTRICTION ON ACQUISITION OF FORGINGS	APR/2003
I-75	252.225-7031	SECONDARY ARAB BOYCOTT OF ISRAEL	APR/2003
I-76	252.227-7016	RIGHTS IN BID OR PROPOSAL INFORMATION	JUN/1995
I-77	252.227-7017	IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS	JUN/1995
I-78	252.227-7018	RIGHTS IN NONCOMMERCIAL TECHNICAL DATA AND COMPUTER SOFTWARE-- SMALL BUSINESS INNOVATIVE RESEARCH (SBIR) PROGRAM	JUN/1995
I-79	252.227-7019	VALIDATION OF ASSERTED RESTRICTIONS--COMPUTER SOFTWARE	JUN/1995
I-80	252.227-7030	TECHNICAL DATA--WITHHOLDING OF PAYMENT	MAR/2000
I-81	252.227-7034	PATENTS--SUBCONTRACTS	APR/1984
I-82	252.227-7036	DECLARATION OF TECHNICAL DATA CONFORMITY	JAN/1997
I-83	252.227-7037	VALIDATION OF RESTRICTIVE MARKINGS ON TECHNICAL DATA	SEP/1999
I-84	252.244-7000	SUBCONTRACTS FOR COMMERCIAL ITEMS AND COMMERCIAL COMPONENTS (DoD CONTRACTS)	MAR/2000
I-85	52.215-21	REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA--MODIFICATIONS ````(ALTERNATE III (OCT 1997))	OCT/1997

(a) Exceptions from cost or pricing data.

(1) In lieu of submitting cost or pricing data for modifications under this contract, for price adjustments expected to exceed the threshold set forth at FAR 15.403-4 on the date of the agreement on price or the date of the award, whichever is later, the Contractor may submit a written request for exception by submitting the information described in the following subparagraphs. The Contracting Officer may require additional supporting information, but only to the extent necessary to determine whether an exception should be granted, and whether the price is fair and reasonable--

(i) Identification of the law or regulation establishing the price offered. If the price is controlled under law by periodic rulings, reviews, or similar actions of a governmental body, attach a copy of the controlling document, unless it was previously submitted to the contracting office.



<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>  <b>PIIN/SIIN</b> W56HZV-04-C-0017 <b>MOD/AMD</b>	<b>Page 17 of 23</b>
<b>Name of Offeror or Contractor:</b> AUTONOMOUS SOLUTIONS, INC.		

(ii) Information on modifications of contracts of subcontracts for commercial items.

(A) If--

- (1) the original contract or subcontract was granted an exception from cost or pricing data requirements because the price agreed upon was based on adequate price competition, or prices set by law or regulation, or was a contract or subcontract for the acquisition of a commercial item, and
- (2) the modification (to the contract or subcontract) is not exempted based on one of these exceptions, then the Contractor may provide information to establish that the modification would not change the contract or subcontract from a contract or subcontract for the acquisition of a commercial item to a contract or subcontract for the acquisition of an item other than a commercial item.

(B) For a commercial item exception, the Contractor shall provide, at a minimum, information on prices at which the same item or similar items have previously been sold that is adequate for evaluating the reasonableness of the price of the modification. Such information may include--

- (1) For catalog items, a copy of or identification of the catalog and its date, or the appropriate pages for the offered items, or a statement that the catalog is on file in the buying office to which the proposal is being submitted. Provide a copy or describe current discount policies and price lists (published or unpublished), e.g., wholesale, original equipment manufacturer, or reseller. Also explain the basis of each offered price and its relationship to the established catalog price, including how the proposed price relates to the price or recent sales in quantities similar to the proposed quantities.
- (2) For market-priced items, the source and date or period of the market quotation or other basis for market price, the base amount, and applicable discounts. In addition, describe the nature of the market.
- (3) For items included on an active Federal Supply Service Multiple Award Schedule contract, proof that an exception has been granted for the schedule item.
- (4) The Contractor grants the Contracting Officer or an authorized representative the right to examine, at any time before award, books, records, documents, or other directly pertinent records to verify any request for an exception under this clause, and the reasonableness of price. For items priced using catalog or market prices, or law or regulation, access does not extend to cost or profit information or other data relevant solely to the Contractor's determination of the prices to be offered in the catalog or marketplace.

(b) Requirements for cost or pricing data. If the Contractor is not granted an exception from the requirement to submit cost or pricing data, the following applies:

(1) The Contractor shall submit cost or pricing data and supporting attachments in accordance with Table 15-2 of FAR 15.408.

(2) As soon as practicable after agreement on price, but before contract award (except for unpriced actions), the Contractor shall submit a Certificate of Current Cost or Pricing Data, as prescribed by FAR 15.406-2.

(c) Submit the cost portion of the proposal via the following electronic media: electronic spreadsheet files compatible with MS-DOS/Windows versions Excel 5.0 or earlier, with .xls as the preferred format.

[End of Clause]

I-86

52.219-4

NOTICE OF PRICE EVALUATION FOR HUBZONE SMALL BUSINESS CONCERNS

JAN/1999

(a) Definition. HUBZone small business concern, as used in this clause, means a small business concern that appears on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration.

(b) Evaluation preference.

(1) Offers will be evaluated by adding a factor of 10 percent to the price of all offers, except--

<p align="center"><b>CONTINUATION SHEET</b></p>	<p align="center"><b>Reference No. of Document Being Continued</b></p> <p align="center"><b>PIIN/SIIN</b> W56HZV-04-C-0017      <b>MOD/AMD</b></p>	<p align="right"><b>Page 18 of 23</b></p>
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**Name of Offeror or Contractor:** AUTONOMOUS SOLUTIONS, INC.

- (i) Offers from HUBZone small business concerns that have not waived the evaluation preference;
  - (ii) Otherwise successful offers from small business concerns;
  - (iii) Otherwise successful offers of eligible products under the Trade Agreements Act when the dollar threshold for application of the Act is exceeded (see 25.402 of the Federal Acquisition Regulation (FAR)); and
  - (iv) Otherwise successful offers where application of the factor would be inconsistent with a Memorandum of Understanding or other international agreement with a foreign government.
- (2) The factor of 10 percent shall be applied on a line item basis or to any group of items on which award may be made. Other evaluation factors described in the solicitation shall be applied before application of the factor.
- (3) A concern that is both a HUBZone small business concern and a small disadvantaged business concern will receive the benefit of both the HUBZone small business price evaluation preference and the small disadvantaged business price evaluation adjustment (see FAR clause 52.219-23). Each applicable price evaluation preference or adjustment shall be calculated independently against an offeror's base offer. These individual preference amounts shall be added together to arrive at the total evaluated price for that offer.
- (c) Waiver of evaluation preference. A HUBZone small business concern may elect to waive the evaluation preference, in which case the factor will be added to its offer for evaluation purposes. The agreements in paragraph (d) of this clause do not apply if the offeror has waived the evaluation preference.
- [ ] Offer elects to waive the evaluation preference.
- (d) Agreement. A HUBZone small business concern agrees that in the performance of the contract, in the case of a contract for
- (1) Services (except construction), at least 50 percent of the cost of personnel for contract performance will be spent for employees of the concern or employees of other HUBZone small business concerns;
  - (2) Supplies (other than procurement from a nonmanufacturer of such supplies), at least 50 percent of the cost of manufacturing, excluding the cost of materials, will be performed by the concern or other HUBZone small business concerns;
  - (3) General construction, at least 15 percent of the cost of the contract performance incurred for personnel will be spent on the concern's employees or the employees of other HUBZone small business concerns; or
  - (4) Construction by special trade contractors, at least 25 percent of the cost of the contract performance incurred for personnel will be spent on the concern's employees or the employees of other HUBZone small business concerns.
- (e) A HUBZone joint venture agrees that in the performance of the contract, the applicable percentage specified in paragraph (d) of this clause will be performed by the HUBZone small business participant or participants;
- (f) A HUBZone small business concern nonmanufacturer agrees to furnish in performing this contract only end items manufactured or produced by HUBZone small business manufacturer concerns. This paragraph does not apply in connection with construction or service contracts.

[End of Clause]

I-87      52.223-11      OZONE-DEPLETING SUBSTANCES      MAY/2001

- (a) Definition. Ozone-depleting substance, as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR part 82 as--
- (1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or
  - (2) Class II, including but not limited to, hydrochlorofluorocarbons.
- (b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j(b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

WARNING: Contains (or manufactured with, if applicable) \_\_\_\_\_ \* \_\_\_\_\_, a substance(s) which harm(s) public health and environment by destroying ozone in the upper atmosphere.

\*The Contractor shall insert the name of the substance(s).

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>  <b>PIIN/SIIN</b> W56HZV-04-C-0017 <b>MOD/AMD</b>	<b>Page 19 of 23</b>
<b>Name of Offeror or Contractor:</b> AUTONOMOUS SOLUTIONS, INC.		

[End of Clause]

I-88      52.252-6      AUTHORIZED DEVIATIONS IN CLAUSES      APR/1984

(a) The use in this solicitation or contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of (DEVIATION) after the date of the clause.

(b) The use in this solicitation or contract of any DoD FAR Supplement (DFARS) (48 CFR 2) clause with an authorized deviation is indicated by the addition of (DEVIATION) after the name of the regulation.

[End of Clause]

I-89      252.204-7004      REQUIRED CENTRAL CONTRACTOR REGISTRATION      NOV/2001

(a) Definitions. As used in this clause--

(1) Central Contractor Registration (CCR) database means the primary DoD repository for contractor information required for the conduct of business with DoD.

(2) Data Universal Numbering System (DUNS) number means the 9-digit number assigned by Dun and Bradstreet Information Services to identify unique business entities.

(3) Data Universal Numbering System +4 (DUNS+4) number means the DUNS number assigned by Dun and Bradstreet plus a 4-digit suffix that may be assigned by a parent (controlling) business concern. This 4-digit suffix may be assigned at the discretion of the parent business concern for such purposes as identifying subunits or affiliates of the parent business concern.

(4) Registered in the CCR database means that all mandatory information, including the DUNS number or the DUNS+4 number, if applicable, and the corresponding Commercial and Government Entity (CAGE) code, is in the CCR database; the DUNS number and the CAGE code have been validated; and all edits have been successfully completed.

(b)

(1) By submission of an offer, the offeror acknowledges the requirement that a prospective awardee must be registered in the CCR database prior to award, during performance, and through final payment of any contract resulting from this solicitation, except for awards to foreign vendors for work to be performed outside the United States.

(2) The offeror shall provide its DUNS or, if applicable, its DUNS+4 number with its offer, which will be used by the Contracting Officer to verify that the offeror is registered in the CCR database.

(3) Lack of registration in the CCR database will make an offeror ineligible for award.

(4) DoD has established a goal of registering an applicant in the CCR database within 48 hours after receipt of a complete and accurate application via the Internet. However, registration of an applicant submitting an application through a method other than the Internet may take up to 30 days. Therefore, offerors that are not registered should consider applying for registration immediately upon receipt of this solicitation.

(c) The Contractor is responsible for the accuracy and completeness of the data within the CCR, and for any liability resulting from the Government's reliance on inaccurate or incomplete data. To remain registered in the CCR database after the initial registration, the Contractor is required to confirm on an annual basis that its information in the CCR database is accurate and complete.

(d) Offerors and contractors may obtain information on registration and annual confirmation requirements by calling 1-888-227-2423, or via the Internet at <http://www.ccr.gov>.

[End of Clause]

I-90      252.247-7023      TRANSPORTATION OF SUPPLIES BY SEA      MAY/2002

(a) Definitions. As used in this clause--

(1) Components means articles, materials, and supplies incorporated directly into end products at any level of manufacture, fabrication, or assembly by the Contractor or any subcontractor.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-04-C-0017 <b>MOD/AMD</b>	<b>Page 20 of 23</b>
<b>Name of Offeror or Contractor:</b> AUTONOMOUS SOLUTIONS, INC.		

(2) Department of Defense (DoD) means the Army, Navy, Air Force, Marine Corps, and defense agencies.

(3) Foreign flag vessel means any vessel that is not a U.S.-flag vessel.

(4) Ocean transportation means any transportation aboard a ship, vessel, boat, barge, or ferry through international waters.

(5) Subcontractor means a supplier, materialman, distributor, or vendor at any level below the prime contractor whose contractual obligation to perform results from, or is conditioned upon, award of the prime contract and who is performing any part of the work or other requirement of the prime contract. However, effective May 1, 1996, the term does not include a supplier, materialman, distributor, or vendor of commercial items or commercial components.

(6) Supplies means all property, except land and interests in land, that is clearly identifiable for eventual use by or owned by the DoD at the time of transportation by sea.

(i) An item is clearly identifiable for eventual use by the DoD if, for example, the contract documentation contains a reference to a DoD contract number or a military destination.

(ii) Supplies includes (but is not limited to) public works; buildings and facilities; ships; floating equipment and vessels of every character, type, and description, with parts, subassemblies, accessories, and equipment; machine tools; material; equipment; stores of all kinds; end items; construction materials; and components of the foregoing.

(7) U.S.-flag vessel means a vessel of the United States or belonging to the United States, including any vessel registered or having national status under the laws of the United States.

(b)

(1) The Contractor shall use U.S.-flag vessels when transporting any supplies by sea under this contract.

(2) A subcontractor transporting supplies by sea under this contract shall use U.S.-flag vessels if-

(i) This contract is a construction contract; or

(ii) The supplies being transported are-

(A) Noncommercial items; or

(B) Commercial items that-

(1) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it subcontracts for f.o.b. destination shipment);

(2) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or

(3) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.

(c) The Contractor and its subcontractors may request that the Contracting Officer authorize shipment in foreign-flag vessels, or designate available U.S.-flag vessels, if the Contractor or a subcontractor believes that--

(1) U.S.-flag vessels are not available for timely shipment;

(2) The freight charges are inordinately excessive or unreasonable; or

(3) Freight charges are higher than charges to private persons for transportation of like goods.

(d) The Contractor must submit any request for use of other than U.S.-flag vessels in writing to the Contracting Officer at least 45 days prior to the sailing date necessary to meet its delivery schedules. The Contracting Officer will process requests submitted after such date(s) as expeditiously as possible, but the Contracting Officer's failure to grant approvals to meet the shipper's sailing date will not of itself constitute a compensable delay under this or any other clause of this contract. Requests shall contain at a minimum--

(1) Type, weight, and cube of cargo;

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b> <b>PIIN/SIIN</b> W56HZV-04-C-0017 <b>MOD/AMD</b>	<b>Page 21 of 23</b>
<b>Name of Offeror or Contractor:</b> AUTONOMOUS SOLUTIONS, INC.		

- (2) Required shipping date;
- (3) Special handling and discharge requirements;
- (4) Loading and discharge points;
- (5) Name of shipper and consignee;
- (6) Prime contract number; and

(7) A documented description of efforts made to secure U.S.-flag vessels, including points of contact (with names and telephone numbers) with at least two U.S.-flag carriers contacted. Copies of telephone notes, telegraphic and facsimile message or letters will be sufficient for this purpose.

(e) The Contractor shall, within 30 days after each shipment covered by this clause, provide the Contracting Officer and the Division of National Cargo, Office of Market Development, Maritime Administration, U.S. Department of Transportation, Washington, DC 20590, one copy of the rated on board vessel operating carrier's ocean bill of lading, which shall contain the following information--

- (1) Prime contract number;
- (2) Name of vessel;
- (3) Vessel flag of registry;
- (4) Date of loading;
- (5) Port of loading;
- (6) Port of final discharge;
- (7) Description of commodity;
- (8) Gross weight in pounds and cubic feet if available;
- (9) Total ocean freight in U.S. dollars; and
- (10) Name of the steamship company.

(f) The Contractor shall provide with its final invoice under this contract a representation that to the best of its knowledge and belief--

- (1) No ocean transportation was used in the performance of this contract;
- (2) Ocean transportation was used and only U.S.-flag vessels were used for all ocean shipments under the contract;
- (3) Ocean transportation was used, and the Contractor had the written consent of the Contracting Officer for all non-U.S.-flag ocean transportation; or

(4) Ocean transportation was used and some or all of the shipments were made on non-U.S.-flag vessels without the written consent of the Contracting Officer. The Contractor shall describe these shipments in the following format:

ITEM	CONTRACT	QUANTITY	TOTAL
DESCRIPTION	LINE ITEMS		

(g) If the final invoice does not include the required representation, the Government will reject and return it to the Contractor as an improper invoice for the purposes of the Prompt Payment clause of this contract. In the event there has been unauthorized use of non-U.S.-flag vessels in the performance of this contract, the Contracting Officer is entitled to equitably adjust the contract, based on the unauthorized use.

(h) In the award of subcontracts for the types of supplies described in paragraph (b)(2) of this clause, the Contractor shall flow down the requirements of this clause as follows:

- (1) The Contractor shall insert the substance of this clause, including this paragraph (h) in all subcontracts that exceed the simplified acquisition threshold in Part 2 of the Federal Acquisition Regulation.

<b>CONTINUATION SHEET</b>	<b>Reference No. of Document Being Continued</b>  <b>PIIN/SIIN</b> W56HZV-04-C-0017 <b>MOD/AMD</b>	<b>Page 22 of 23</b>
<b>Name of Offeror or Contractor:</b> AUTONOMOUS SOLUTIONS, INC.		

(2) The Contractor shall insert the substance of paragraphs (a) through (e) of this clause, and this paragraph (h), in subcontracts that are at or below the simplified acquisition threshold in Part 2 of the Federal Acquisition Regulation.

[End of Clause]

I-91      252.247-7024      NOTIFICATION OF TRANSPORTATION OF SUPPLIES BY SEA      MAR/2000

(a) The Contractor has indicated by the response to the solicitation provision, Representation of Extent of Transportation by Sea, that it did not anticipate transporting by sea any supplies. If however, after the award of this contract, the Contractor learns that supplies, as defined in the Transportation of Supplies by Sea clause of this contract, will be transported by sea, the Contractor--

- (1) Shall notify the Contracting Officer of that fact; and
- (2) Hereby agrees to comply with all the terms and conditions of the Transportation of Supplies by Sea clause of this contract.

(b) The Contractor shall include this clause, including this paragraph (b), revised as necessary to reflect the relationship of the contracting parties

- (1) In all subcontracts hereunder, if this contract is a construction contract; or
- (2) If this contract is not a construction contract, in all subcontracts under this contract that are for--
  - (i) Noncommercial items; or
  - (ii) Commercial items that-
    - (A) The Contractor is reselling or distributing to the Government without adding value (generally, the Contractor does not add value to items that it subcontracts for f.o.b. destination shipment);
    - (B) Are shipped in direct support of U.S. military contingency operations, exercises, or forces deployed in humanitarian or peacekeeping operations; or
    - (C) Are commissary or exchange cargoes transported outside of the Defense Transportation System in accordance with 10 U.S.C. 2643.

[End of Clause]

I-92      52.204-4009      MANDATORY USE OF CONTRACTOR TO GOVERNMENT ELECTRONIC COMMUNICATION      JUN/1999  
(TACOM)

(a) All references in the contract to the submission of written documentation shall mean electronic submission. All electronic submissions shall be in the formats and media described in the "Electronic Quotations/Offers/Bids Required in Response to this Request for Quotations/Proposals/Bids" clause elsewhere in this document. (See Section K for commercial acquisitions, Section L for RFPs, and Section I for RFQs.)

(b) This shall include all written unclassified communications between the Government and the Contractor except contract awards and contract modifications which shall be posted on the internet. Return receipt shall be used if a commercial application is available. Classified information shall be handled in full accordance with the appropriate security requirements.

(c) In order to be contractually binding, all Government communications requiring a Contracting Officer signature must be sent from the Contracting Officer's e-mail address. The Contractor shall designate the personnel with signature authority who can contractually bind the contractor. All binding contractor communication shall be sent from this contractor e-mail address(es).

(d) Upon award, the Contractor shall provide the Contracting Officer with a list of e-mail addresses for all administrative and technical personnel assigned to this contract.

(e) Unless exempted by the Procuring Contracting Officer in writing, all unclassified written communication after contract award shall be transmitted electronically.

[End of Clause]

CONTINUATION SHEET	Reference No. of Document Being Continued		Page 23 of 23
	PIIN/SIIN W56HZV-04-C-0017	MOD/AMD	
Name of Offeror or Contractor: AUTONOMOUS SOLUTIONS, INC.			

SECTION J - LIST OF ATTACHMENTS

List of Addenda	Title	Date	Number of Pages	Transmitted By
Attachment 001	CONTRACT DATA REQUIREMENTS LIST (CDRL) DD1423			

CONTRACT DATA REQUIREMENT LIST

Form Approval OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 440 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either these addresses. Send completed form to the Government Issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO.: 0002 D. SYSTEM/ITEM.....: Motion Planning for Omni-Directional Vehicles  
B. EXHIBIT .....: A E. CONTRACT/PR NO.: W56HZV-04-C-0017  
C. CATEGORY.....: F. CONTRACTOR.....: Autonomous Solutions, Inc.

1. DATA ITEM NO.....: A001  
2. TITLE OF DATA ITEM.: Contractor's Progress, Status, and Management Report  
3. SUBTITLE.....: Phase II Progress Reports

4. AUTHORITY.....: DI-MGMT-80227 (T)  
5. CONTRACT REFERENCE.: Section C.4.1  
6. REQUIRING OFFICE....: AMSTA-TR-R 9. DIST. STATEMENT REQUIRED.: 12. DATE OF FIRST SUB.: See Block 16  
7. DD250 REQ.....: 10. FREQUENCY.....: See Block 16 13. DATE OF SUBS. SUB.: See Block 16  
8. APP CODE.....: 11. AS OF DATE.....: See Block 16

14. DISTRIBUTION	A. ADDRESSEES	B. COPIES:	DRAFT	FINAL
Robert Karlsen, Contracting Officer's Representative (COR), E-mail:	karlsenr@tacom.army.mil			1
Pam Kostowny, Contract Specialist, E-Mail:	kostownp@tacom.army.mil			1
Wayne Hackett, Administrative Contracting Officer (ACO), E-mail:	whackett@dcmdw.dcm.mil			1
		15. TOTAL:		1 *

\* In distributing the electronic report, according to the schedule in Block 16 below, the Contractor shall deliver one (1) copy to the Government, sent to Robert Karlsen, Pam Kostowny and Wayne Hackett: e-mail addresses are provided above.

16. REMARKS:

a. The Contractor shall deliver bi-monthly progress reports. The first report shall be submitted sixty (60) days after the contract award date.

b. Complete the reports in accordance with (IAW) Data Item Description (DID) DI-MGMT-80227, "Contractor's Progress, Status, and Management Report." The COR is responsible for accepting or rejecting the "Contractor's Progress, Status, and Management Reports." See DID DI-MGMT-80227, at the Internet address below, for instructions on completing the required report.

<http://astimage.daps.dla.mil/docimages/0001\48\17\DI80227.PD8>

Note Tailoring: Delete paragraphs 10.3g, k, and l from DID DI-MGMT-80227.

c. Prepare the reports in the Contractor's format. Submit the reports using any of the following electronic formats:

(1) Files readable using these Microsoft\* 97 Office Products (TACOM can currently read OFFICE 97\* and lower): Word, Excel, PowerPoint, or Access. Spreadsheets must be sent in a file format that includes all formulae, macro and format information. Print image is not acceptable. Executable files, other than self-extracting compressed files, are unacceptable.

(2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

(3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. All linked information must be contained within your electronic report, and be accessible offline.

(4) Other electronic formats. Before preparing your report in any other electronic format, please e-mail the COR, with an e-mail copy-furnished to amsta-idq@tacom.army.mil, to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten calendar days before the draft report's due date. All alternate methods must be at no cost to the Government.

NOTES: (a) The above formats may be submitted in compressed form using self-extracting files.

(b) Files may be read-only, password protected.



d. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include 100 or 250 Megabyte Zip\*-disk, 3 1/2 inch disk, or 650 megabyte CD-ROM. Identify the software application and version used to create each file submitted.

(1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Any compressed files must be self-extracting, and you must provide appropriate instructions. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

(2) 100 or 250 MEGABYTE ZIP\*-DISK, 3 1/2 INCH DISK, OR 650 MEGABYTE CD ROM via U.S. Mail or other carrier. The Contractor shall label and all submitted disks with the Contract number, the Contractor's name, address and a contact's phone number.

NOTE: Please select only one medium by which to transmit each report. For instance, do not submit a report via e-mail and 100 megabyte Zip\*-disk.

\* Registered Trademark

1. DATA ITEM NO. ....: A002  
2. TITLE OF DATA ITEM.: Scientific and Technical Reports  
3. SUBTITLE .....: Phase II Interim Technical Report  
  
4. AUTHORITY .....: DI-MISC-80711A  
5. CONTRACT REFERENCE: Section C.4.2  
6. REQUIRING OFFICE...: AMSTA-TR-R  
7. DD250 REQ.....: DD  
8. APP CODE.....:  
  
9. DIST. STATEMENT REQUIRED.:  
10. FREQUENCY.....: See Block 16  
11. AS OF DATE.....: See Block 16  
  
12. DATE OF FIRST SUB.: See Block 16  
13. DATE OF SUBS. SUB.: See Block 16  
  
14. DISTRIBUTION  
A. ADDRESSEES  
Robert Karlsen, Contracting Officer's Representative (COR), E-mail: karlsenr@tacom.army.mil  
Pam Kostowny, Contract Specialist, E-Mail: kostownp@tacom.army.mil  
Wayne Hackett, Administrative Contracting Officer (ACO), E-mail: whackett@dcmdw.dcm.mil  
  
B. COPIES: DRAFT FINAL  
1 1  
1 1  
1 1  
15. TOTAL: 1 \*

\* In distributing the electronic report, according to the schedule in Block 16 below, the Contractor shall deliver one (1) copy to the Government, sent to Robert Karlsen, Pam Kostowny and Wayne Hackett: e-mail addresses are provided above.

16. REMARKS:

a. The Contractor shall deliver one (1) interim "Scientific and Technical Report," twelve (12) months after contract award.

b. Complete the report in accordance with IAW DID DI-MISC 80711A, "Scientific and Technical Reports." The COR is responsible for accepting or rejecting the interim report. See the data item description (DI-MISC-80711A), at the Internet address below, for instructions on completing the required report.

<http://astimage.daps.dla.mil/docimages/0002\27\88\80711A.PD4>

c. Prepare the reports in the Contractor's format. Submit the reports using any of the following electronic formats:

(1) Files readable using these Microsoft\* 97 Office Products (TACOM can currently read OFFICE 97\* and lower): Word, Excel, PowerPoint, or Access. Spreadsheets must be sent in a file format that includes all formulae, macro and format information. Print image is not acceptable. Executable files, other than self-extracting compressed files, are unacceptable.

(2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

(3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. All linked information must be contained within your electronic report, and be accessible offline.

(4) Other electronic formats. Before preparing your report in any other electronic format, please e-mail the COR, with an e-mail copy-furnished to amsta-idq@tacom.army.mil, in order to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten calendar days before the draft report's due date.

All alternate methods must be at no cost to the Government.

NOTES: (a) The above formats may be submitted in compressed form using self-extracting files.

(b) Files may be read-only, password protected.

e. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include 100 or 250 Megabyte Zip\*-disk, 3 1/2 inch disk, or 650 megabyte CD ROM. Identify the software application and version used to create each file submitted.

(1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Any compressed files must be self-extracting, and you must provide appropriate instructions. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

(2) 100 or 250 MEGABYTE ZIP\*-DISK, 3 1/2 INCH DISK, OR 650 MEGABYTE CD ROM via U.S. Mail or other carrier. The Contractor shall label and all submitted disks with the Contract number, the Contractor's name, address and a contact's phone number.

NOTE: Please select only one medium by which to transmit each report. For instance, do not submit a report via e-mail and 100 megabyte Zip\*-disk.

\* Registered Trademark

1. DATA ITEM NO. ....: A003  
2. TITLE OF DATA ITEM.: Scientific and Technical Reports  
3. SUBTITLE ..... : Phase II Draft and Final Technical Reports  
  
4. AUTHORITY .....: DI-MISC-80711A  
5. CONTRACT REFERENCE: Section C.4.3  
6. REQUIRING OFFICE...: AMSTA-TR-R  
7. DD250 REQ.....: DD  
8. APP CODE.....:  
  
9. DIST. STATEMENT REQUIRED.:  
10. FREQUENCY.....: See Block 16  
11. AS OF DATE.....: See Block 16  
  
12. DATE OF FIRST SUB.: See Block 16  
13. DATE OF SUBS. SUB.: See Block 16  
  
14. DISTRIBUTION  
A. ADDRESSEES  
Robert Karlsen, Contracting Officer's Representative (COR), E-mail: karlsenr@tacom.army.mil  
Pam Kostowny, Contract Specialist, E-Mail: kostownp@tacom.army.mil  
Wayne Hackett, Administrative Contracting Officer (ACO), E-mail: whackett@dcmdw.dcm.mil  
  
B. COPIES: DRAFT FINAL  
1 1  
1  
1  
1  
15. TOTAL: 1 1 \*

\* In distributing the electronic report, according to the schedule in Block 16 below, the Contractor shall deliver one (1) copy to the Government, sent to Robert Karlsen, Pam Kostowny and Wayne Hackett: e-mail addresses are provided above.

16. REMARKS:

a. The Contractor shall deliver one (1) draft "Scientific and Technical Report," twenty-three (23) months after contract award. The draft report shall include a completed Standard Form (SF) 298 (Report Documentation Page) as the report's cover sheet. The COR shall review the draft report and return it to the Contractor within fourteen (14) days of receipt with comments. The Contractor shall submit one (1) final "Scientific and Technical Report" (with the completed SF 298) within fourteen (14) days after receipt of draft comments.

c. Complete the reports IAW DID DI-MISC 80711A, "Scientific and Technical Reports." The COR is responsible for accepting or rejecting the draft and final reports, and for submitting the approved final report to the Defense Technical Information Center (DTIC), in Ft. Belvoir, VA. See the data item description (DI-MISC-80711A), at the Internet address below, for instructions on completing the required report.

<http://astimage.daps.dla.mil/docimages/0002\27\88\80711A.PD4>

You may download the SF 298 form, from the following Internet address:

<http://www.dtic.mil/dtic/forms/sf298template.doc>

You may download basic instructions for completing the SF 298 form, from the following Internet address:

[http://www.dtic.mil/dtic/forms/SF298\\_MS67.doc](http://www.dtic.mil/dtic/forms/SF298_MS67.doc)

Here are some additional instructions for completing the SF 298 form, that apply when submitting reports under the SBIR Program:

For each unclassified report, the Contractor shall fill in Block 12a (Distribution/Availability Statement) of the SF 298 with one of the following statements:

- (a) Approved for public release; distribution unlimited.
- (b) Distribution authorized to U.S. Government Agencies only; contains proprietary information

Note: After reviewing the Contractor's entry in Block 12a, TACOM has final responsibility for assigning a distribution statement.

Block 13 (Abstract) of the SF 298 must include the first sentence, "Report developed under SBIR contract for topic A02-227." The abstract must identify the purpose of the work and briefly describe the work carried out, the finding or results, and the potential applications of the effort. Since the Department of Defense (DOD) will be publishing the abstract, it must not contain any proprietary or classified data.

Block 14 (Subject Terms) of the SF 298 must include the term "SBIR Report."

d. Prepare the reports in the Contractor's format. Submit the reports using any of the following electronic formats:

(1) Files readable using these Microsoft\* 97 Office Products (TACOM can currently read OFFICE 97\* and lower): Word, Excel, PowerPoint, or Access. Spreadsheets must be sent in a file format that includes all formulae, macro and format information. Print image is not acceptable. Executable files, other than self-extracting compressed files, are unacceptable.

(2) Files in Adobe PDF (Portable Document Format). Scanners should be set to 200 dots per inch.

(3) Files in HTML (Hypertext Markup Language). HTML documents must not contain active links to live Internet sites or pages. All linked information must be contained within your electronic report, and be accessible offline.

(4) Other electronic formats. Before preparing your report in any other electronic format, please e-mail the COR, with an e-mail copy-furnished to amsta-idq@tacom.army.mil, in order to obtain a decision as to the format's acceptability. This e-mail must be received by the COR not later than ten calendar days before the draft report's due date. All alternate methods must be at no cost to the Government.

NOTES: (a) The above formats may be submitted in compressed form using self-extracting files.

(b) Files may be read-only, password protected.

e. Acceptable media: The Contractor shall submit reports via e-mail. If e-mail is not workable, other acceptable media include 100 or 250 Megabyte Zip\*-disk, 3 1/2 inch disk, or 650 megabyte CD ROM. Identify the software application and version used to create each file submitted.

(1) E-MAIL. Maximum size of each e-mail message shall be three and one-half (3.5) megabytes. Any compressed files must be self-extracting, and you must provide appropriate instructions. You may use multiple e-mail messages if necessary, however, you must annotate the subject lines in this manner: "Message 1 of 3, 2 of 3, 3 of 3."

(2) 100 or 250 MEGABYTE ZIP\*-DISK, 3 INCH DISK, OR 650 MEGABYTE CD ROM via U.S. Mail or other carrier. The Contractor shall label and all submitted disks with the Contract number, the Contractor's name, address and a contact's phone number.

NOTE: Please select only one medium by which to transmit each report. For instance, do not submit a report via e-mail and 100 megabyte Zip\*-disk.

\* Registered Trademark